

What is claimed is:

1. A method for generating a virtual device comprising a plurality of wireless devices, each wireless device comprising a limited range communications apparatus, the method comprising the steps of:

when a first wireless device is within the limited range of a second wireless device, each wireless device determining if the other wireless device comprises a sharable resource; and

if at least one of the first or second wireless devices comprises a sharable resource, the first and second wireless devices forming a wireless network such that the sharable resource is used by the other wireless device when an event requiring the sharable resource is received by the wireless network.

2. The method of claim 1 wherein the sharable resources comprise at least one of: a display, a modem, a global positioning satellite receiver, processing time, and memory.

3. The method of claim 1 and further including the steps of:
the first wireless device storing information comprising identification information regarding the second wireless device and information regarding the sharable resource; and

the second wireless device storing information comprising identification information regarding the first wireless device and information regarding the sharable resource.

4. The method of claim 3 wherein the identification information comprises unique identification assigned to each wireless device.

5. A method for establishing a decision matrix comprising a plurality of wireless devices, each wireless device comprising a unique device identification and a limited range communications apparatus, the method comprising the steps of:

when a first wireless device is within the range of a wireless, distributed network comprising the plurality of wireless devices, determining if the first wireless device comprises a sharable resource;

5 if the first wireless device comprises a sharable resource, the wireless distributed network enabling the first wireless device to join the wireless distributed network such that the sharable resource is used by the plurality of wireless devices when an event requiring the sharable resource is received by the wireless distributed network; and

10 each of the plurality of wireless devices that comprise the wireless distributed network, storing identification and shared resource information regarding the other wireless devices of the wireless distributed network.

6. The method of claim 5 wherein the unique device identification comprises Bluetooth-compliant identification information.

15 7. The method of claim 5 and further including the step of determining if the first wireless device is a private device.

8. A method for sharing resources among a plurality of wireless devices
20 belonging to a wireless network, the method comprising the steps of:

generating a decision matrix comprising an identification of each of the plurality of wireless devices and their corresponding shared resource;

a first wireless device of the plurality of wireless devices generating an event that requires a shared resource;

25 consulting the decision matrix to determine which shared resource to utilize;

the first wireless device determining if the shared resource is available;

if the shared resource is not available, indicating the unavailability of the shared resource; and

30 if the shared resource is available, the first wireless device transferring event data to the shared resource in response to the identification of the wireless device having the shared resource.

9. The method of claim 8 wherein the resources comprise at least one of a display, a communication device, and processing time.

5 10. The method of claim 8 wherein the step of the first wireless device generating the event comprises the first wireless device receiving a file for display utilizing the shared resource of the wireless device having the resource.

10 11. The method of claim 8 and further including the step of if the shared resource is not available, updating the decision matrix to indicate the unavailability of the shared resource.

15 12. A personal wireless device comprising:
at least one apparatus for executing a task;
a communication apparatus for wireless communication having a limited
communication range with other personal wireless devices in a wireless network; and
a decision matrix comprising a list of personal wireless devices of which the
wireless network is comprised and a list of any shared resources corresponding to
each personal wireless device. the resources and forwards the tasks incapable of
20 performance by the resources to the

13. The device of claim 12 wherein the communication apparatus is in compliance with a Bluetooth specification.

25 14. The device of claim 13 wherein the communication apparatus is in compliance with the Bluetooth specification.

30 15. A method for transferring information between a personal wireless device that comprises a first limited range communications apparatus and a public information database coupled to a second limited range communications apparatus, the method comprising the steps of:

placing the personal wireless device within the limited range of the second communications apparatus;

the personal wireless device and the public information database forming a network;

5 the personal wireless device requesting an information transfer from the public information database; and

the public information database transferring the requested information to the personal wireless device.

10 16. The method of claim 15 and further including the step of the personal wireless device forming a network with other personal wireless devices in order to share the transferred information.

15 17. The method of claim 16 wherein the public information database comprises a local public telephone directory and the transferred information comprises a local telephone number.

20 18. A method for generating a virtual device comprising a plurality of wireless devices, the plurality of wireless devices having a master wireless device and each device comprising identification information and a limited range communication apparatus, the method comprising the steps of:

when a first wireless device of the plurality of wireless devices is within the limited range of the master wireless device, the master wireless device determining if the first wireless device comprises a sharable resource; and

25 if the first wireless device comprises a sharable resource, the first and master wireless devices forming a wireless network such that the sharable resource and any master wireless device sharable resource is used by the other wireless device when an event requiring the sharable resource is received by the wireless network; and

30 the master wireless device saving the identification information and shared resource information regarding the first wireless device of the wireless.

19. The method of claim 18 and further comprising the step of the master wireless device saving a decision matrix that comprises a row of each of the identification information for each of the plurality of wireless devices, a column for each available shared resource, and an indication of which identification information
5 is comprised of which shared resource.

20. A method for generating a virtual device comprising a plurality of wireless devices, each wireless device comprising a limited range communication apparatus, the method comprising the steps of:
- 10 when a first wireless device is within range of a second wireless device, each wireless device determining if the other wireless device comprises a sharable resource;
- if at least one of the first or second wireless devices comprises a sharable resource, the first and second wireless devices forming a wireless network such that
15 the sharable resource is used by the other wireless device when an event requiring the sharable resource is received by the wireless network;
- each of the plurality of wireless devices that comprise the wireless network storing identification and shared resource information regarding the other wireless devices of the wireless distributed network; and
- 20 the second wireless device acting as a repeater for the first wireless device such that the first wireless device communicates with the other plurality of wireless devices through the second wireless device.